



## LONG WEAR LIP GLOSS

### Example Formulation

#### Description

An example of a long-wear lip gloss formulation for a glossy finish is described. This lip gloss formula provides long-lasting smoothness, color, and soft feel. Additionally, the formula provides moisture retention with the film-forming properties of Ellamera™ from Kraton and the skin-conditioning properties of phytosteryl isostearate.

#### Physical Properties

Appearance	Viscous Paste
Colour:	Pigment specific
Odour:	Fragrant specific
Solubility:	Not soluble in water

**COMPOSITION:**

INCI	Qty. %	TRADE NAME	FUNCTION
Isododecane	45,35	Isododecane	Solvent
Ethyl Hexyl Palmitate	20,00	DUB PO	Emollient
Hydrogenated Styrene/Isoprene Copolymer	11,00	Ellamera RAD THICK 501	Film former
Caprylic/Capric Triglyceride/Stearalkonium Bentonite/Propylene Carbonate	10,00	MIGLYOL GEL T	Thickening agent and Emollient
Phytosteryl Isostearate	5,00	NIKKOL Phytosteryl Isostearate	Active and Emollient
Polyethylene Wax	5,00	PERFORMALENE 400	Wax
Hydrogenated Styrene/Isoprene Copolymer	1,50	Ellamera BI-THIN 402	Thickening agent and film former
D&C RED 30	1,20	SUNCROMA RED30	Color Lake
Titanium Dioxide	0,80	HOMBITAN ANATASE PHARMA	Color Pigment
Pentaerythryl tetra di butyl hydroxyhydrocinnamate	0,10	Tinogard TT DD	Antioxidant
Flavour	0,05	Flavour	Flavour

\* DUB PO is a trademark of Stearinerie Dubois; MIGLYO is a trademark of IOI Oleo GmbH; PERFORMALENE is a trademark of Baker Hughes; SUNCROMA is a trademark of Sun Chemical; HOMBITAN is a trademark of Hunstman; TINOGARD is a trademark of BASF.

**USED EQUIPMENT:**

- Top stirring laboratory mixer
- Heating plate
- Three-roll mill for pigment grinding

**SAFETY NOTES:**

- Always be attentive when using mechanical equipment
- Manage all the ingredients with gloves and correct PPE
- Isododecane can evaporate and always better to cover the vessel and use good ventilation
- Read the safety document from all the ingredients prior to formulating.

## PREPARATION:

### Phase A

Isododecane	45,35
DUB PO	20,0
Ellamera RAD THICK 501	11,0
Ellamera BI-THIN 402	1,50
Tinogard TT	0,10
PERFORMALENE 400 PE	5,00

### Phase B

Miglyol gel T	10,00
Phytosteryl isostearate	5,00
Homibitan anatase	0,80
Suncroma DC RED30	1,20

### Phase C

Flavour	0,05
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Add phase A in a beaker and heat for 30 minutes on 100°C, mixing it with a laboratory mixer (400 RPM) for roughly 30 minutes until the polymers are melted. After mixing, cool down the Phase A mixture to 70°C and check the isododecane content via weigh scale and correct it if necessary.

While phase A is cooling down, prepare the colour phase B. Start by homogenizing the Miglyol gel T and Phytosteryl isostearate, then slowly add and disperse the Hombitan anatase and Suncroma DC RED30 and mix / homogenize with a spatula.

Add phase B to the three-roll mill on the smallest setting and mill the colour mixture 3 times, obtaining a coloured paste.

Add phase B coloured paste to phase A while stirring. Add the flavour component to the product at 50°C and cool down to room temperature.

## PREPARATION NOTES:

Premix the Hombitan Anatase and Suncroma DC RED30 before to add at the liquid part

## PACKAGING

Long Wear Lip Gloss is formulated with Isododecane and need packaging that protects the evaporation of volatile solvent.

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